

## Index to Volume 31

---

### No. 1

- T. Braun, W. Glänzel, Hajnalka Maczelka, A. Schubert* (Budapest, Hungary)  
World Science in the Eighties. National Performances in Publication Output and Citation Impact, 1985-1989 versus 1980-1984. Part II. Life Sciences, Engineering, and Mathematics 3
- J. S. Katz* (Falmer, UK)  
Geographical Proximity and Scientific Collaboration 31
- B. L. Milman* (St. Petersburg, Russia)  
Individual Co-Citation Clusters as Nuclei of Complete and Dynamic Informetric Models of Scientific and Technological Areas 45
- L. Leydesdorff* (Amsterdam, The Netherlands)  
The Generation of Aggregated Journal-Journal Citation Maps on the Basis of the CD-ROM Version of the Science Citation Index 59
- W. Saurer, R. Weinberger* (Innsbruck, Austria)  
Planetary Nebulae: Some Statistics on a Continuously Growing Field and its Contributors 85
- P. S. Nagpaul, Lalita Sharma* (New Delhi, India)  
Research Output and Transnational Cooperation in Physics Subfields: A Multidimensional Analysis 97
- Letter to the Editor 123

### No. 2

- G. Lewison* (London, England)  
Publications from the European Community's Biotechnology Action Programme (BAP): Multi-Nationality, Acknowledgment of Support, and Citations 125
- S. Kyvik* (Oslo, Norway)  
Popular Science Publishing 143
- P. C. van der Kruit* (Groningen, The Netherlands)  
A Comparison of Astronomy in Fifteen Member Countries of the Organisation for Economic Co-Operation and Development 155

# INDEX TO VOLUME 31

<i>J. P. Courtial, T. Cahlik, M. Callon</i> (Paris and Nantes, France)	
A Model for Social Interaction between Cognition and Action through a Key-Word Simulation of Knowledge Growth	173
<i>P. Wouters, L. Leydesdorff</i> (Amsterdam, The Netherlands)	
Has Price's Dream Come True: Is Scientometrics a Hard Science?	193
No. 3	
<i>P. Winkler</i> (Budapest, Hungary)	
Model of Manifested Communication through Publications?	223
<i>Zhang Haiqi</i> (Beijing, China)	
A Bibliometric Study on Medicine Chinese Traditional in Medline Database?	241
<i>J. P. Courtial</i> (Nantes, France)	
A Coword Analysis of Scientometrics	251
<i>M. Leclerc, J. Cagné</i> (Québec, Canada)	
International Scientific Cooperation: The Continentalization of Science	261
<i>Katarina Prpić</i> (Zagreb, Croatia)	
The Socio-Cognitive Frameworks of Scientific Productivity	293
Index to Volume 31	313

## Author Index

- BRAUN, T.; GLÄNZEL, W.; MACZELKA, HAJNALKA; SCHUBERT, A.: World Science in the Eighties. National Performances in Publication Output and Citation Impact, 1985-1989 versus 1980-1984. Part II. Life Sciences, Engineering, and Mathematics, 3
- CAGNÉ, J., *see* LECLERC, M., 261
- CAHLIK, T., *see* COURTIAL, J. P., 173
- CALLON, M., *see* COURTIAL, J. P., 173
- COURTIAL, J. P.: A Coword Analysis of Scientometrics, 251
- COURTIAL, J. P., CAHLIK, T., CALLON, M.: A Model for Social Interaction between Cognition and Action through a Key-Word Simulation of Knowledge Growth, 173
- GLÄNZEL, W., *see* BRAUN, T., 3
- KATZ, J. S.: Geographical Proximity and Scientific Collaboration, 31
- KRUIT, VAN, DER, P. C., *see* VAN DER KRUIT, P. C., 155
- KYVIK, S.: Popular Science Publishing, 143
- LECLERC, M., CAGNÉ, J.: International Scientific Cooperation: The Continentalization of Science, 261
- LEWISON, G.: Publications from the European Community's Biotechnology Action Programme (BAP): Multi-Nationality, Acknowledgement of Support, and Citations, 125
- LEYDESORFF, L.: The Generation of Aggregated Journal-Journal Citation Maps on the Basis of the CD-ROM Version of the Science Citation Index, 59
- LEYDESORFF, L., *see* WOUTERS, P., 193
- MACZELKA, HAJNALKA, *see* BRAUN, T., 3
- MILMAN, B. L.: Individual Co-Citation Clusters as Nuclei of Complete and Dynamic Informetric Models of Scientific and Technological Areas, 45
- NAGPAUL, P. S.; SHARMA, LALITA: Research Output and Transnational Cooperation in Physics Subfields: Multidimensional Analysis, 97
- PRPIC, KATARINA: The Socio-Cognitive Frameworks of Scientific Productivity, 293
- SAUER, W., WEINBERGER, R.: Planetary Nebulae: Some Statistics on a Continuously Growing Field and its Contributors, 85
- SCHUBERT, A., *see* BRAUN, T., 3
- SHARMA, LALITA, *see* NAGPAUL, P. S., 97
- VAN DER KRUIT, P. C.: A Comparison of Astronomy in Fifteen Member Countries of the Organisation for Economic Co-Operation and Development, 155
- VINKLER, P.: Model of Manifested Communication through Publications, 223
- WEINBERGER, R., *see* SAUER, W., 85
- WOUTERS, P., LEYDESORFF, L.: Has Price's Dream Come True: Is Scientometrics a Hard Science? 193
- ZHANG, HAIQI: A Bibliometric Study on Medicine Chinese Traditional in Medline Database, 241

